

Collaborative Working and Critical Thinking: Adoption of Generative Artificial Intelligence Tools in Higher Education

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Abstract

This study explores the impact of generative artificial intelligence tools on critical thinking and collaboration among university students, highlighting the importance of investigating these technologies due to their increasing integration into higher education and their potential to transform traditional pedagogical practices. A predominantly female sample was surveyed to assess their familiarity with and experience and perceptions of these tools. A total of 87% of the respondents had prior knowledge of generative AI tools, with 38% using them occasionally. Among the most popular tools are Canva 2024 (33%), Chat PDF (26%), and YOU.COM (24%). Additionally, 64% of the respondents believe that these tools significantly improve their critical thinking ability. Despite their high familiarity with and occasional use of these tools, the need for continuous training and technical support was identified. While generative AI tools show promising potential for enhancing collaboration and critical thinking in higher education, previous research has limitations, such as the lack of longitudinal data and the inadequacy in addressing ethical considerations and potential biases. More comprehensive research is needed to understand their long-term impact better and maximize their potential benefits.